

Local Action **vs** Federal In-Action



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ICLEI – Local Governments for Sustainability USA

ICLEI's Policy Work

Federal and International
Analysis

Federal Funding Updates

Blog Posts

Webinars

Current Series: Sustainability as a Local
Economic Development Strategy



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The 111th Congress



American Clean Energy and Security Act

Waxman-Markey

Passed the House on June 26, 2009



Clean Energy Jobs and American Power Act

Kerry-Boxer

Released Oct. 27, 2009



American Power Act

Kerry-Lieberman

Released May 12, 2010





Source: Grist



U.S. Targets Under The Copenhagen Accord

- 1990 Baseline



80% by 2050

Scenario category	Region	2020	2050
A-450 ppm CO ₂ -eq ^b	Annex I	-25% to -40%	-80% to -95%
	Non-Annex I	Substantial deviation from baseline in Latin America, Middle East, East Asia and Centrally-Planned Asia	Substantial deviation from baseline in all regions
B-550 ppm CO ₂ -eq	Annex I	-10% to -30%	-40% to -90%
	Non-Annex I	Deviation from baseline in Latin America and Middle East, East Asia	Deviation from baseline in most regions, especially in Latin America and Middle East
C-650 ppm CO ₂ -eq	Annex I	0% to -25%	-30% to -80%
	Non-Annex I	Baseline	Deviation from baseline in Latin America and Middle East, East Asia

IPCC

4% by 2020



Climate Change Is Here Today



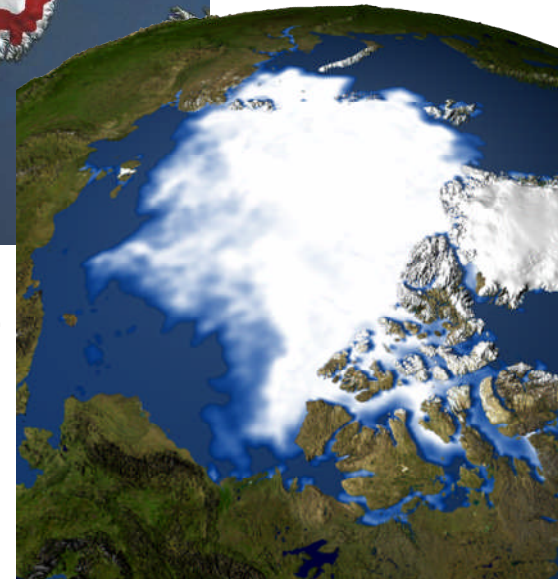
Glacier Bay Alaska: 1941 – 2005



Kenai Fjords, 1920 – 2005



**Greenland
1979 – 2007**



North Pole, 1979 – 2003

Source: NASA

How Much More Do We Want?



MIAMI BEACH, FLORIDA
Population: 87,933

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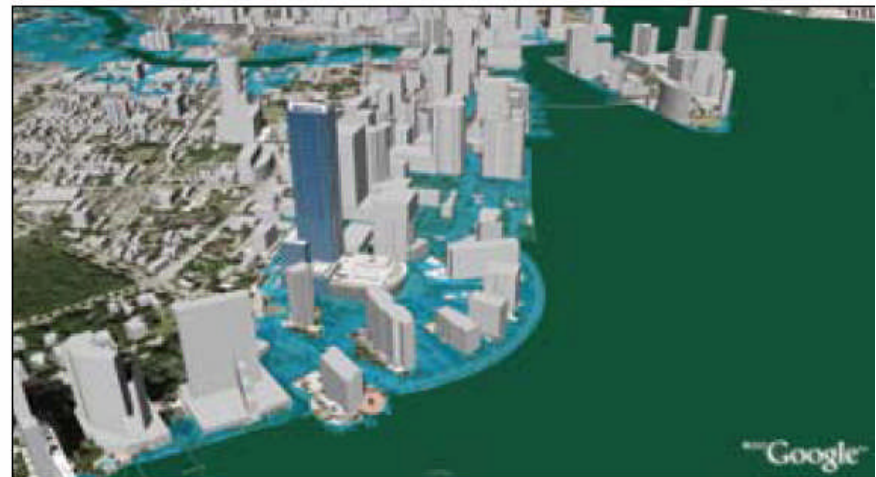
MIAMI BEACH, FLORIDA - 1-meter sea level rise
Population: 87,933 Data Source: LIDAR IHRCS

©2007 2030, Inc.



MIAMI, FLORIDA
Population: 362,470

©2007 2030, Inc.



MIAMI, FLORIDA - 1.25-meter sea level rise
Population: 362,470 Data Source: LIDAR IHRCS

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Climate and Energy - The Administration

Copenhagen Accord

EPA GHG Authority

Recovery Act Investments/ EECBG

Sustainable Communities Partnership

Southeast Florida Regional Consortium

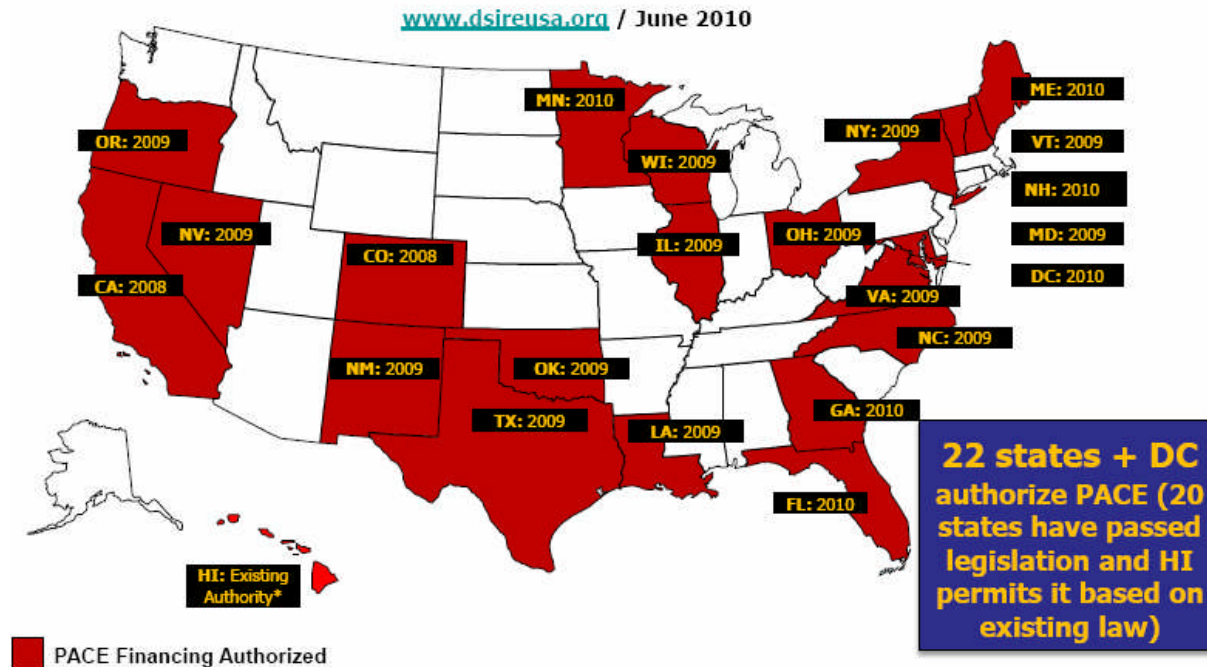
Adaptation



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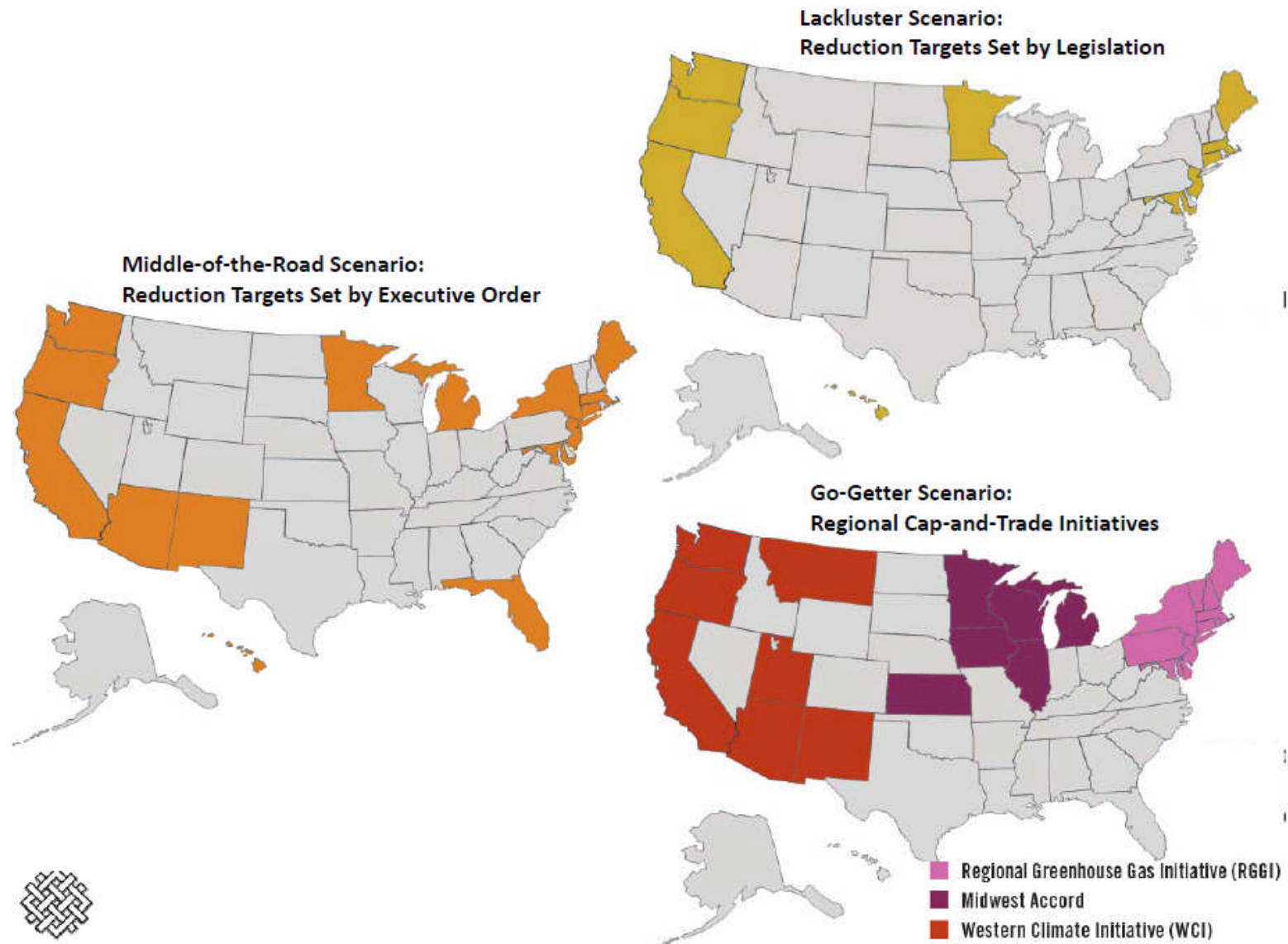
Property Assessed Clean Energy (PACE) Financing



- Fannie, Freddie and FHFA Statements
- Dangerous Federal Overreach into Local Powers
- PACE Assessment Protection Act
- Litigation

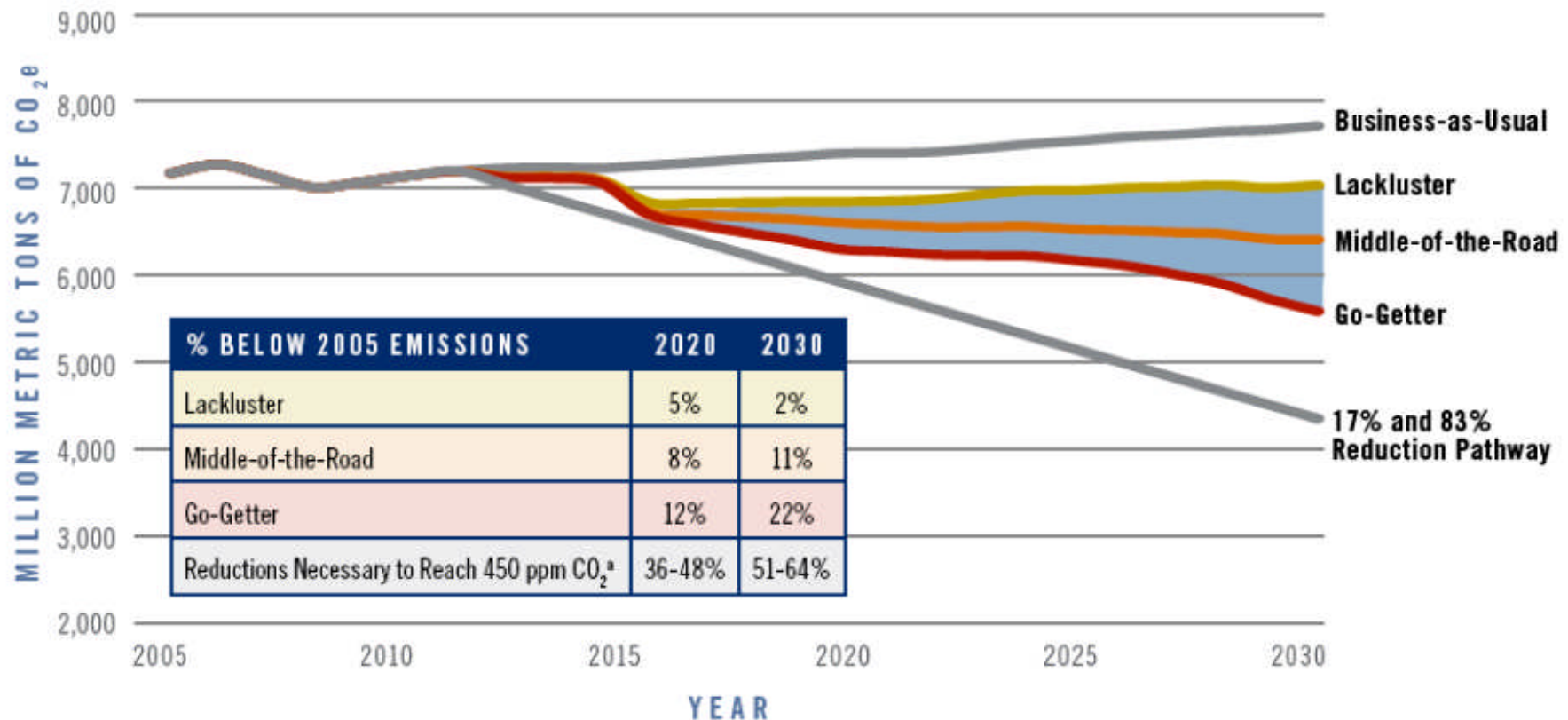


Regional and State Action



With Just Existing Federal and State Authorities

FIGURE 1. Projected U.S. Emissions under Different Federal Regulatory Scenarios



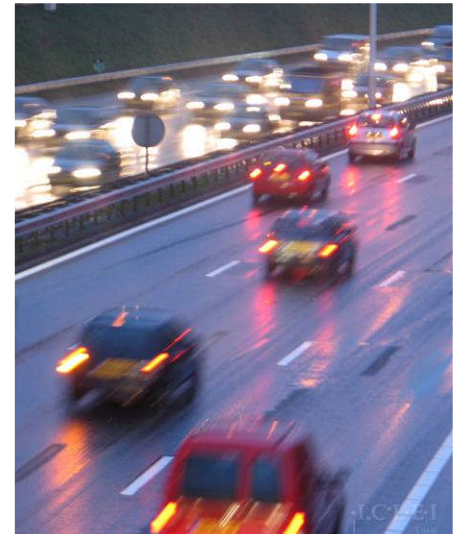
Local Power Global Future

"77% of all the electricity produced at power plants in the U.S. was used to just operate buildings."

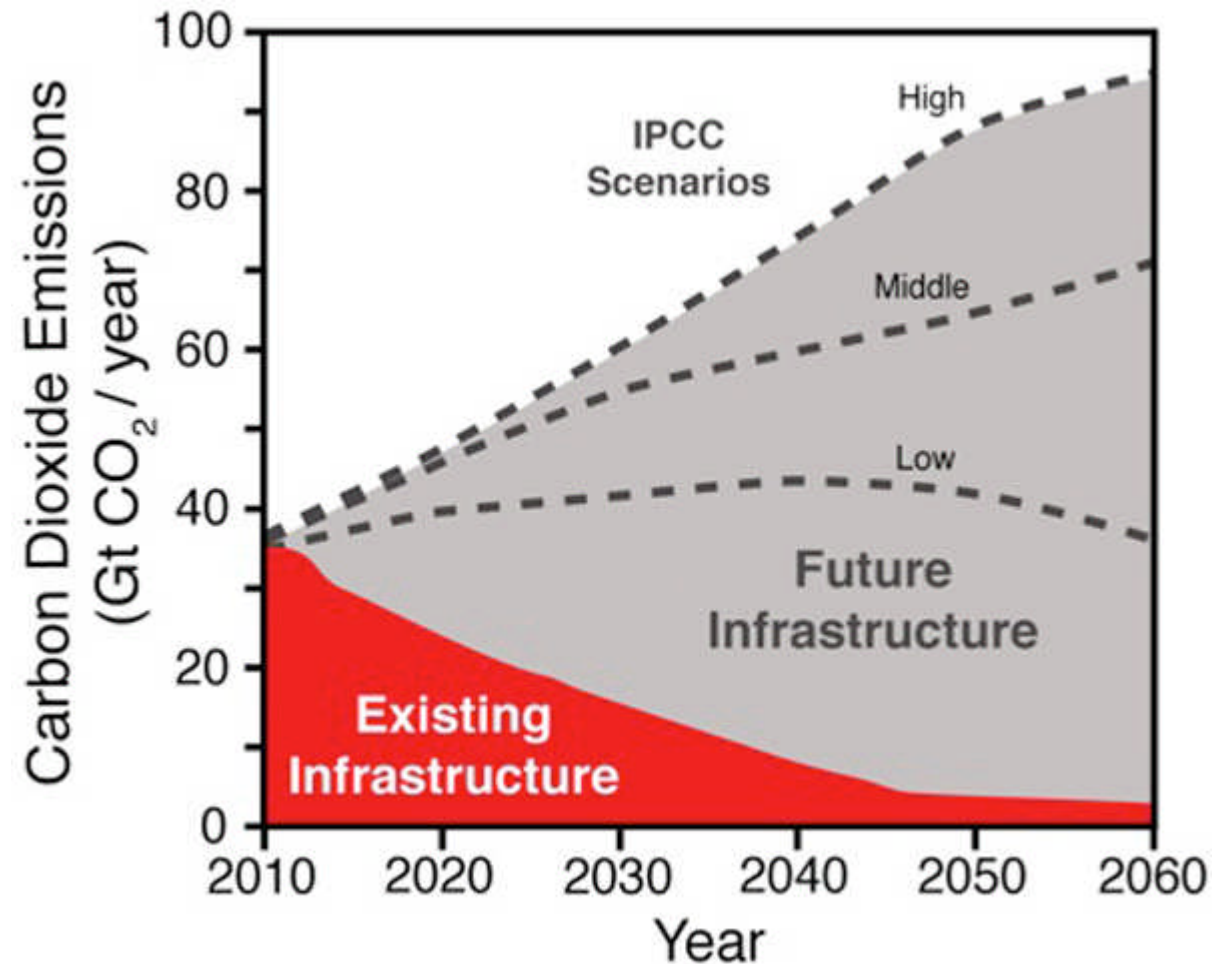
-Architecture 2030

"Transportation accounts for [33%] of CO2 emissions in the United States."

- Growing Cooler Report, ULI



Future Infrastructure

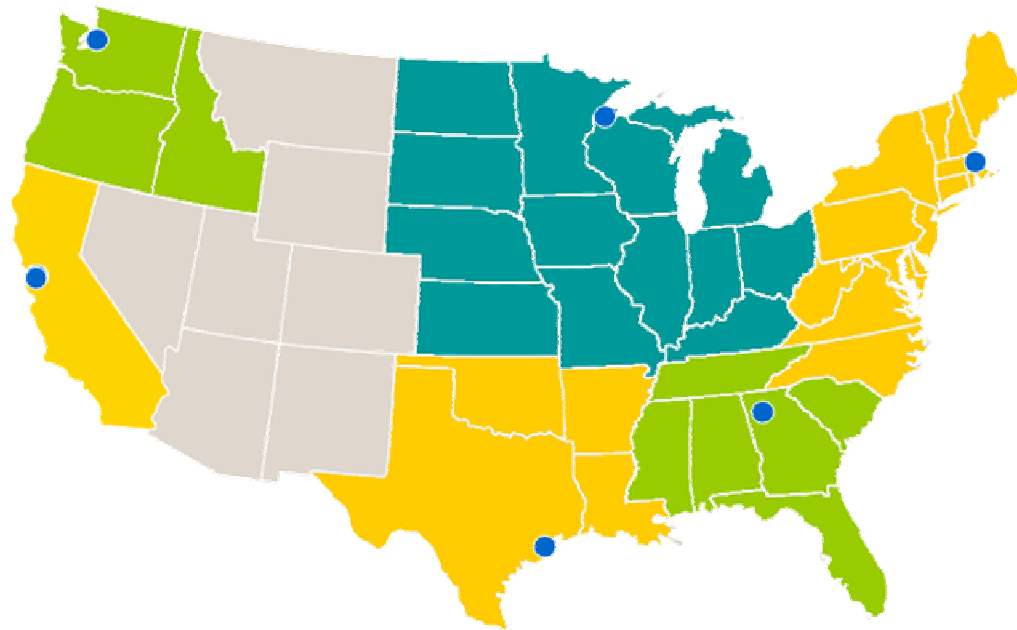
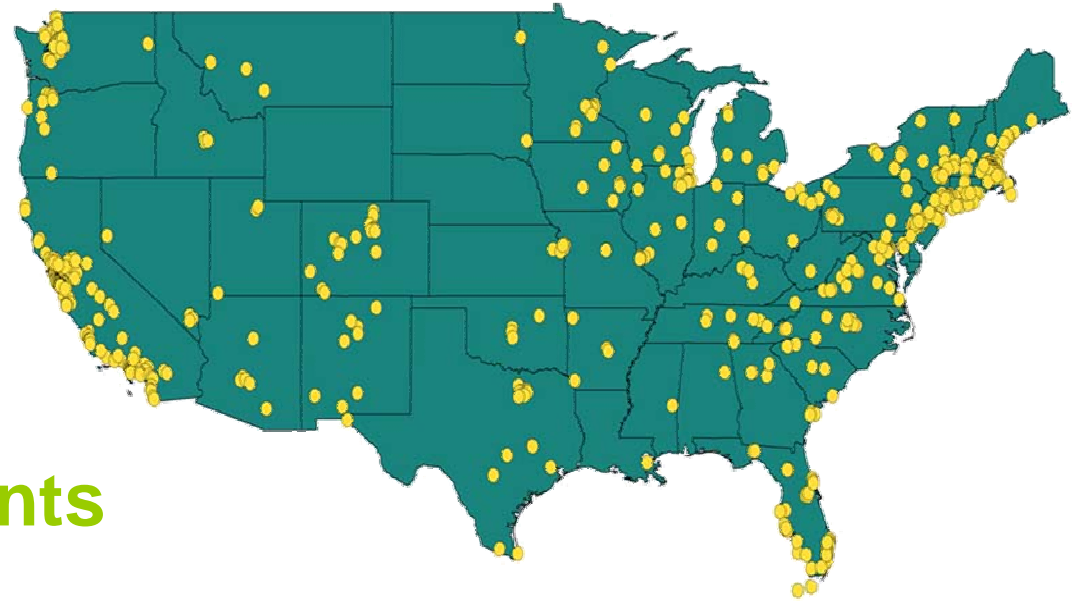


“[S]ources of the most threatening emissions have yet to be built.”

“CO₂-emitting infrastructure will expand unless extraordinary efforts are undertaken to develop alternatives.”

ICLEI USA

7 Offices
40 Staff Members
600 Local Governments



Mitigation
Adaptation
Sustainability

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5 Milestone Process



Measuring Up

Emissions reduction projected by 2020:

▼ **1.36 billion metric tons CO₂e**

(= 25 million passenger vehicles for 10 years)

Emissions reduction projected by 2050:

▼ **6.8 billion metric tons CO₂e**

(= 37 coal-fired power plants for 40 years)

Leveraging the Network

SUSTAINABILITY PLANNING TOOLKIT

A COMPREHENSIVE GUIDE
FOR LOCAL GOVERNMENTS ON HOW
TO CREATE A SUSTAINABILITY PLAN

WRITTEN BY:
ICLEI-Local Governments
for Sustainability USA



IN ASSOCIATION WITH:
The City of New York's Mayor's Office
of Long-Term Planning and Sustainability

DECEMBER 2009

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www.icleiusa.org/sustainabilitytoolkit

The Process Behind PlaNYC

How the City of New York
Developed Its Comprehensive
Long-Term Sustainability Plan

Written by
ICLEI-Local Governments for Sustainability USA
In association with
The Mayor's Office of Long-Term Planning and Sustainability, City of New York

April 2010



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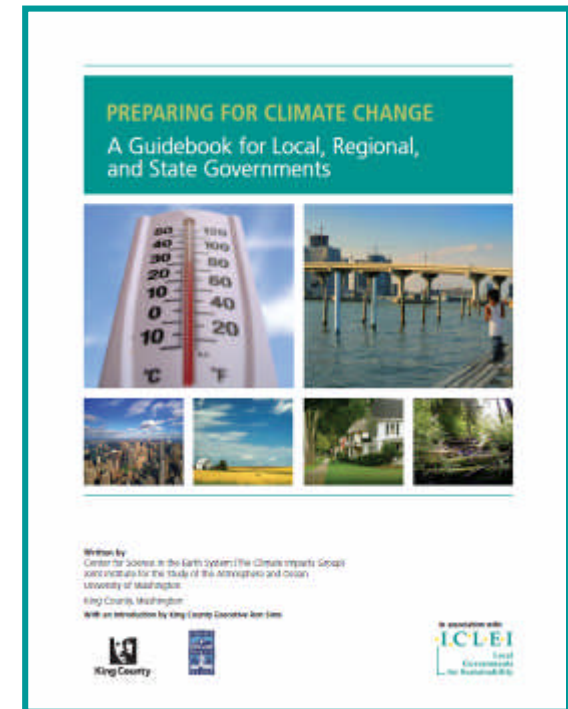
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Adaptation

ICLEI USA's Adaptation Milestones

- Conduct a Climate Resiliency Study
- Set Preparedness Goals
- Develop Preparedness Plan
- Implement Preparedness Plan
- Measure Progress & Evaluate Plan



A Sustainability Index

Environment

Natural Systems
Planning & Design
Energy & Climate

Economy

Economic Development
Employment & Workforce Training

Society

Education, Arts & Community
Children, Health & Safety
Affordability & Social Equity



STAR
COMMUNITY INDEX



Wastewater Treatment - Tampa, FL

- **\$83,000 Annual City Savings**

Use of a byproduct of an existing process

- **1.18 Million kWh Generated**

Methane from the wastewater treatment plant is captured and used to generate electricity

- **25% Self Powered Facility**

What was considered waste is now being used as a resource



Water Treatment - Houston, TX

- **\$769,000 in Annual Savings**

Solar water treatment devices have reduced the cost energy intensive water treatment

- **Zero Up Front Costs**

The City Leased the Equipment from the Solar Bee company

- **Environmental Benefits**

GHGs – 1,436 tons CO₂e avoided per year

Chemicals – 67% reduction in the need for chemical treatment



Employee Education - Asheville, NC

- **\$65,000 in Annual Savings**

Sourced from avoided light, heating and cooling costs

- **Low Cost Changes**

Switch 180 employees to a 4 day/10 hr workweek

Software that automatically turns off 500 computers at night

- **20% Reduction**

Lights and HVAC operating at 20% less





Plan B = Plan A+

Thank You



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